

DIRECTORATE OF INTELLIGENCE

Industrial Facilities (Non-Military)

Basic Imagery Interpretation Report

Major Electric Power Plants Hopeh Province, China

Top Secret

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RCS | 13/0021/70 TCS | 16524/70 DATE | FEBRUARY | 1970

Declass Review by NUMA & 201/08/07: CIA-RDP79T00909A000606990006-1 106

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> CENTRAL INTELLIGENCE AGENCY Directorate of Intelligence Imagery Analysis Service

ABSTRACT

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photography, covers the 16 This report, based on major electric power plants in Hopeh Province, northern China. It updates previous Basic Imagery Interpretation Reports and Briefs on the four plants at Peking and one each at Chin-huang-tao, Chu-yang, Han-tan, Hsia-hua-yuan, Lin-hsi. Mi-yun, Pao-ting, Ping-shan, Shih-chia-chuang, Tang-shan, and Tientsin. Also included is the initial basic report on the Huai-lai Hydro Power Plant. The cutoff date for information in this report is

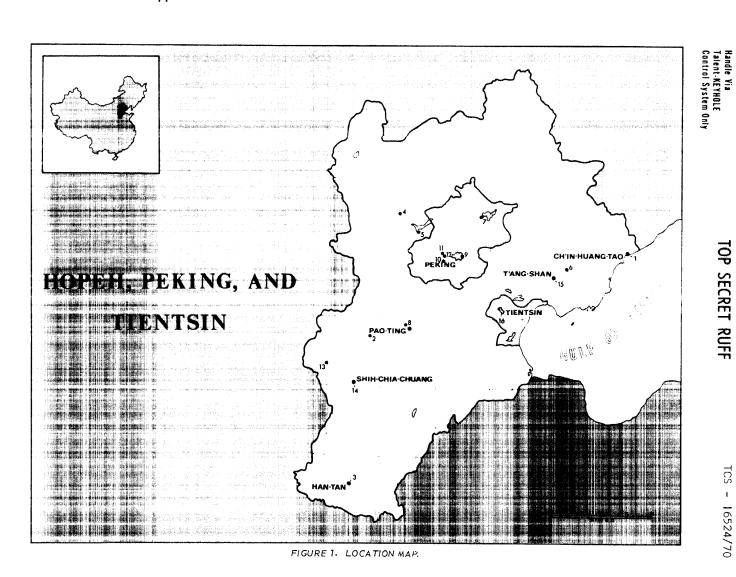
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The Huai-lai Hydro <u>Power Plant was co</u>mplete when it was first seen on Since that time no changes have available photography in been observed at the plant. The plant contains a power house probably with four turbogenerators, a switching yard with four transformers, a semiburied surge tank, and underground conduits.

At the Pei-ching (Peking) Thermal Power Plant Kao-ching, the boilerhouse previously reported under construction has been completed and an additional double-unit boiler has been installed. Since the previous report, no construction or dismantling has been observed at the other 15 plants. On the latest coverage, 12 plants were observed in operation. The poor quality of the photography precluded determining the operational status of the other four plants.

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INTRODUCTION

This report presents information on the current status of each of the 16 major electric power plants in Hopeh Province and describes any changes since the previous reports.

The following list of the major electric power plants in Hopeh Province is keyed to Figure 1.

- I. Chin-huang-tao Thermal Power Plant.
- 2. Chu-yang Hydro Power Plant.
- 3. Han-tan Thermal Power Plant.
- 4. Hsia-hua-yuan Thermal Power Plant.
- 5. Huai-lai Hydro Power Plant and Dam Kuan-ting.
- 6. Lin-hsi Thermal Power Plant.
- 7. Mi-yun Hydro Power Plant and Dam No. I.
- 8. Pao-ting Thermal Power Plant.
- 9. Pei-ching (Peking) Heat and Thermal Power Plant No. 1.
- 10. Pei-ching Thermal Power Plant Chang-hsin-tien.
- II. Pei-ching Thermal Power Plant Kao-ching.
- 12. Pei-ching Thermal Power Plant Shih-ching-shan.
- 13. Ping-shan Hydro Power Plant Kang-nan.
- 14. Shih-chia-chuang Heat and Thermal Power Plant.
- 15. Tang-shan Heat and Thermal Power Plant.
- 16. Tien-ching (Tientsin) Thermal Power Plant No. 1.

Requirement

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	CTIVITY NAME	COUNTRY
Chin-huang-tac	Thermal Power Plant	CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	011
50SQK230219	39-55-03N 119-36-40E	
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Chu-yang Hydro	Power Plant		CH
UTM COORDINATES	GEOGRAPHIC COORDINATES		
50SLT055916	38-44-40N		
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CIA. RCS 13/0110/69, Selected Chinese Power Plants, May 1969, TCS 18724/69 (TOP SECRET RUFF)

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	R ACTIVITY NAME	COUNTR
Han-tan Ther	mal Power Plant	СН
UTM COORDINATE 50SKR768574	GEOGRAPHIC COORDINATES 36-38-17N 114-29-48E	
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INSTALLATION OR A	ACTIVITY NAME		COUNTRY
Hsia-hua-yuan	Thermal Power Plant		CH
UTM COORDINATES			
50TLK518829	40-29-00N 5- 5-55E		
MAP REFERENCE			
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FIGURE 2. HUAI-LAI HYDRO POWER PLANT KUAN-TING, CHINA,

	Key to Annot	ations
Item No.	Description	Remarks
1 2 3 4 5 6 7 8 9	Tailrace Powerhouse Switching Yard Semiburied Surge Tank Spillway Water Intake Earthen Dam Bypass Intake Bypass Outlet	Probably 4 Turbogenerators 4 Transformers

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INSTALLATION OR AC	TIVITY NAME	COUNTRY
Huai-lai Hydro	Power Plant and Dam Kuan-ting	CH
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50TLK807539	40-13-20N 115-36-10E	
MAP REFERENCE		
	TC, Series 200, Sheet M <u>0289-21HL. 5th ed. Aug 68. Sca</u> CRET/No Foreign Dissem	ale 1:200,000
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BASIC DESCRIPTION

The Huai-lai Hydro Power Plant and Dam is about II nautical miles (nm) south-southeast of Huai-lai on the Yung-ting River. The powerhouse is about 0.6 nm south of the dam.

The plant facilities include an earthen dam, a powerhouse, a switching yard, a semiburied surge tank, and underground conduits. The water enters the underground conduits near the east end of the dam, and then flows past the semiburied surge tank to the powerhouse. Four discharges at the base of the powerhouse indicate that it probably contains four turbogenerators. Four transformers have been observed within the switching yard. The plant was complete Since that when first observed on available photography in time, no changes have been seen at the plant on photography through

The plant was observed in operation only in when turbulence was seen in the tailrace. Since that time, no turbulence has been visible in the tailrace to indicate that the plant was operating. However, the quality of the photography may have precluded its observation.

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US Air Target Chart, Series 200, Sheet M0289-21HL, 5th edition. August 1968, Scale 1:200,000 (SECRET/No Foreign Dissem

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PIR 65150, Chinese Power Plants, Hopeh Province, June 1966, TCS 3624/66 (TOP SECRET RUFF)

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	CTIVITY NAME	COUNTRY
Mi-yun Hydro P	ower Plant and Dam No. I	СН
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50TMK857808	40-28-55N 116-49-50E	
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INSTALLATION OR	ACTIVITY NAME		COUNTRY
Pao-ting Ther	mal Power Plant		CH
UTM COORDINATES 50SLU645035	GEOGRAPHIC COORDINATES 38-52-37N 115-25-52	E	
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UTM COORDINATES 305MV550181 39-54-29N 116-28-23E MAP REFERENCE ACIC. USATC, Series 200, Sheet M0381-IHL, 4th ed, Nov 65, Scale 1:200,000 (SECRET/No Foreign Dissem) LATEST IMAGERY USED NEGATION DATE (Frequired) NA BASIC DESCRIPTION No changes nave been observed at the Pai-ching Heat and Thermal Power the date of the latest photography used the previous report. The east end of the boilerhouse was still under construction in The smoke emanating from the three stacks prevented a complete analysis to the facilities, but it indicated that the plant was in operation. REFERENCES	INSTALLATION OR A	CTIVITY NAME		COUNTRY
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INSTALLATION OR A	CTIVITY NAME	COUNTRY
Pei-ching Ther	mal Power Plant Kao-ching	СН
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SMV256213	39-56-16N 116-07-44E	
MAP REFERENCE		
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Pei-ching Ther	rmal Power Plant Shih-ching	-shan	CH
UTM COORDINATES	GEOGRAPHIC COORDINATES		
50SMV269193	39-55-07N 116-08-38E		
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Ping-shan Hy	dro Power Plant Kang-nan	СН
UTM COORDINATE	S GEOGRAPHIC COORDINATES	
50SKT 645359 *	38-14-57N 14-18-12E*	
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CIA.	Ping-shan Hydro Power PI	ant (Kang-nan), November 1968

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Power Plant the previou The pl	since s report. ant was operating in	ved at the Shih-chia-chuang Heat and Thermal the date of the latest photography used in Smoke was emanating from the three
Power Plant the previou The pl	since s report. ant was operating in	ved at the Shih-chia-chuang Heat and Thermal the date of the latest photography used in
Power Plant the previou The pl	since s report. ant was operating in	ved at the Shih-chia-chuang Heat and Thermal the date of the latest photography used in Smoke was emanating from the three tour spray ponds were in operation.
Power Plant the previou The pl	since s report. ant was operating in	ved at the Shih-chia-chuang Heat and Thermal the date of the latest photography used in Smoke was emanating from the three
Power Plant the previou The pl	since s report. ant was operating in	ved at the Shih-chia-chuang Heat and Thermal the date of the latest photography used in Smoke was emanating from the three tour spray ponds were in operation.

Handle Via
Talent-KEYHOAPProved For Release 2001/0864 PGIA-REPT9T00909A0006000100084/70
Control System Only

	CTIVITY NAME	COUNTRY
	and Thermal Power Plant	СН
UTM COORDINATES	GEOGRAPHIC COORDINATES	
50SPJ032897	39-38-50N 118-11-45E	
	TC, Series 200, Sheet 0381-2HL, 2r CRET)	nd ed, Jan 64, Scale I:200,00
LATEST IMAGERY US	ED NEGATION	DATE (If required)
		NA
ince eport.		ography used in the previous
since eport. The plant	the date of the latest phot	ography used in the previous
eport. he plant	the date of the latest photwas operating in He	ography used in the previous
report. The plant both stacks an	the date of the latest phot was operating in the d vapor from the cooling towers.	ography used in the previous
since report. The plant both stacks an	the date of the latest phot was operating in the d vapor from the cooling towers.	ography used in the previous
since report. ihe plant	the date of the latest phot was operating in the d vapor from the cooling towers.	ography used in the previous
since report. The plant both stacks an	the date of the latest phot was operating in the d vapor from the cooling towers.	han Heat and Thermal Power Fography used in the previous avy smoke was emanating from
report. The plant both stacks an	the date of the latest phot was operating in d vapor from the cooling towers. REFERENCES	ography used in the previous

Handle Via TOP SECRET RUFE Talent-KEYHOLApproved For Release 2001/08/07: CIA-RDP79T00909A000600010006-1

25X1A

25X1C

25X1D

25X1D

25X1D

25X1D

25X1A

INSTALLATION OR ACTIVITY NAME	10	COUNTRY				
		•				
Tien-ching Thermal Power Plant No. I		CH				
UTM COORDINATES GEOGRAPHIC COORDINATES	·					
50SNU189293 39-06-43N 117-13-09E						
MAP REFERENCE						
USATC, Series 200, Sheet 0381-6HL, 3rd ed, May 64, Scale 1:200,000 (SECRET/Controlled Dissem)						
LATEST IMAGERY USED	NEGATION DATE (If required)					
	NA					
		100.00				
BASIC DE	SCRIPTION					
3/10/10 52						
No changes have been observed at the Tien-ching Thermal Power Plant No. I						
since the date of the latest photography used in the previous report.						
The plant was operating in						
of the five southern and two of the thre	e northern stacks.					
REFER	ENCES					
Imagery						
Document						
CIA. Tien-ching Thermal						
TCS 12318/68 (TOP SECRET RUFF)	Power Plant No. I, January 196	69,				

Approved For Release 2001/08/07: CIA-RDP79T00909A000600010006-1

Top Secret

Top Secret